

## **Abstract**

An alloy steel composition which includes the following constituents by weight: 0.5 – 3.5% carbon, 0.2 – 0.8% silicon, 0.5 – 1.5% manganese, 0.1 – 2.0% nickel, 1.0 – 3.0% chromium, 0.1 – 0.5% molybdenum and 0.1 – 2.0% copper.